

Bushnell®



TROPHY CAM™

INSTRUCTION MANUAL

Model#s: 119425C2 / 119426C

Lit# 98-1573/02-12

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IMPORTANT NOTE

Congratulations on your purchase of one of the best trail cameras on the market! Bushnell is very proud of this little unit and we are sure you will be pleased with it as well. We appreciate your business and want to earn your trust. Please refer to the notes below and the instructions in this manual to ensure that you are completely satisfied with this product.

If your Bushnell Trophy Cam does not seem to be functioning properly or if you are having photo/video quality issues, please check the Troubleshooting/FAQ section on pages 28-32. Problems are often due to something simple that was overlooked, or require only changing one setting to solve.

If your problem continues after trying the solutions in the Troubleshooting/FAQ section, please call Bushnell Customer Service at (800) 423-3537. In Canada, call (800) 361-5702.

Bushnell recommends using 8 Energizer® Lithium AA batteries in your Trophy Cam to obtain maximum battery life

Do not mix old and new batteries.

**Do not mix battery types-use ALL lithium or ALL alkaline.
Rechargeable batteries are not recommended.**

Bushnell recommends using SanDisk® SD and SDHC Cards (up to 32GB capacity) in your Trophy Cam

INTRODUCTION

About the TROPHY CAM

The **Bushnell Trophy Cam** is a digital scouting camera. It can be triggered by any movement of game in a location, detected by a highly sensitive Passive Infra-Red (PIR) motion sensor, and then take high quality pictures (up to 8MP still photos), or video clips.

The **Trophy Cam** consumes very little power (less than 300 μ A) in a stand-by (surveillance) state. This means it can deliver up to six months stand-by operation time when the device is powered by eight AA alkaline batteries, and up to twelve months utilizing lithium AA batteries. Once motion in the monitored area is detected, the digital camera unit will be triggered at once (typically within one second) and then automatically take photos or videos according to previously programmed settings. The **Trophy Cam** is equipped with built-in infrared LEDs that function as a flash, so that it delivers clear photos or videos (in black & white) even in the dark, and it can take color photos or videos under sufficient daylight. The **Trophy Cam** is designed for outdoor use and is resistant against water and snow.

Applications

The **Trophy Cam** can be used as a trail camera for hunting or scouting game. It is also suitable for surveillance usage.

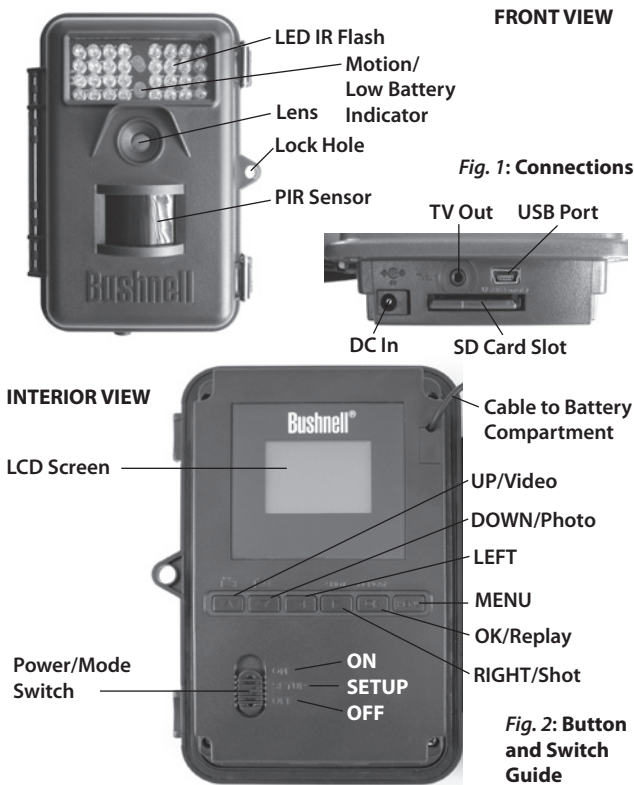
PARTS and CONTROLS

The **Trophy Cam** provides the following connections for external devices: USB port, SD card slot, TV Out, and external DC power in (*Fig. 1*).

A 3-way power switch is used to select the main operating modes: **OFF**, **SETUP**, and **ON** (*Fig. 2*).

A control key interface with six keys is primarily used in **SETUP** mode to select operational functions and parameters. As shown in *Fig. 2*, these keys are: **UP**, **DOWN**, **LEFT**, **RIGHT**, **OK** and **MENU**. Four of the keys can also perform a second function (shortcut operations in **SETUP** mode) in addition to their main function: The **DOWN** key can be used to set the

camera to Photo mode (still camera icon), and the **UP** key can set the camera to Video mode (movie camera icon). The **RIGHT** key also serves as the manual shutter ("SHOT") button of the camera and the **OK** key switches the camera to the Playback ("REPLAY") mode. These secondary functions are indicated by icons or text above the key as shown in *Fig. 2*.



INSTALLING THE BATTERIES and SD CARD

Before you begin learning how to use your **Trophy Cam**, you will first need to install a set of batteries and insert an SD card. Although that may only take you a minute, there are some important notes about both batteries and SD cards you should be aware of, so please take the time to **read the following directions and cautions:**

Loading Batteries

After opening the two latches on the right side of the **Trophy Cam**, you will see that the **Trophy Cam** has eight battery slots. Starting at the top of the battery compartment, slots 1, 2, 3 and 4 form one group, while slots 5, 6, 7 and 8 form the other group, each providing 6 volts in parallel. For maximum battery life, you should install a full set of eight batteries. The **Trophy Cam** may also be operated by just four batteries installed in the top group only (see *right*), starting at slot 1. Battery life will be shorter with 4 batteries, but the camera will operate normally. Whether you use 4 or 8, be sure to insert each battery with correct polarity (negative or “flat” end against the long spring of each battery slot).



Bushnell recommends using eight new lithium AA (Energizer® brand) or alkaline AA batteries. NiMh Rechargeable batteries are not recommended, as the lower voltage they produce can cause operational issues. *It is also possible to use a lead-acid external battery cell with 6V output or suitable AC adapter-see below for more details.*

Using an External Power Source (optional, user provided)

Optionally, you can connect an external 6V DC power source to the “DC In” jack at the bottom of the **Trophy Cam**. It is recommended to use a power source with a current output greater than 1000mA. However, during bright daytime operation when no flash is required, the **Trophy Cam** can function with much less current (>400mA). Please use a compatible power source cable (*not provided*) to connect the external DC power

source with the power input jack of the **Trophy Cam**, making sure that the polarity is correct. **Note:** *The power connector is a 4.0x1.7mm coaxial DC power plug with positive “tip” (inside pin) polarity (Radio Shack P/N 274-1532 or equivalent).*

If both an external power source is connected and batteries are installed, the **Trophy Cam** will be powered by the external power source.

When the batteries become weak, the low-battery indicator LED will glow blue, indicating the batteries should be changed (*pg.7, “Front View”*).

Inserting the SD Card

The **Trophy Cams** have 32MB internal memory, which can hold only about 20 photos (@ 5MP resolution). This is handy for testing and getting familiar with the camera, but you will no doubt want to leave the camera unattended for longer than a day, so using an SD card is recommended. Insert the SD card (with the camera’s power switch in the **OFF** position) before beginning to operate the camera. Don’t insert or remove the SD card when the power switch is in the **ON** position.

The **Trophy Cam** uses a standard SD (Secure Digital) memory card to save photos (in .jpg format) and/or videos (in .avi format). SD and SDHC (High Capacity) cards up to a maximum **32 GB** capacity are supported. Before inserting the SD card into the card slot after opening the camera’s front cover, please make sure that the write-protect switch on the side of the card is “off” (NOT in the “Lock” position). The following describes how to insert and remove the SD card:

- Insert the SD card into the card slot with its label side upwards (*right*). A “click” sound indicates that the card is installed successfully. If the wrong side of the card is facing up, you will not be able to insert it without force—there is only one correct way to insert cards.



If the SD card is not installed correctly, the device will not display an SD card icon on the LCD in SETUP mode (*the SD card icon displayed after switching to SETUP mode will have a “lock” symbol inside it if the card is locked*). Formatting the SD card by using the **Trophy Cam’s** “Format” parameter before using it for the first time is recommended,

especially when a card has been used in other devices (*see “Changing Menu Parameter Settings” for details*).

- To take out the SD card, just gently push in the card (do not try to pull it out without pushing in first). The card is released from the slot and ready to be removed when you hear the click.

WARNING

*Be sure the camera's power is switched OFF
before inserting or removing SD cards or batteries.*

USING THE TROPHY CAM

Once you've prepared your **Trophy Cam** by properly installing batteries and an SD card, you could simply take it outside, strap it to a tree, switch it on and leave-and you might get some great photos that are exactly what you wanted. However, we highly recommend that you first spend some additional time indoors with this manual and your camera until you know a bit more about what the 3-way switch and those control keys do. If nothing else, you'll probably want to at least set the date and time so the camera will imprint them (or not-it's your option) on your photos as they are taken, learn how to set the camera to shoot video clips instead of still photos if you like, and read some tips about mounting it on a tree.

THE OFF, ON, AND SETUP MODES

The **Trophy Cam** has three basic operational modes:

- **OFF** mode: Power switch in the **OFF** position.
- **ON** mode: Power switch in the **ON** position (LCD screen is off.)
- **SETUP** mode: Power switch at **SETUP** position (LCD screen is on).

OFF Mode

The **OFF** mode is the “safe” mode when any actions must be taken, e.g., replacing the SD card or batteries, or transporting the device. You will also use **OFF** mode if you connect the camera to a computer's USB port later to download your photos/videos. And of course, when you are storing or not using the camera, you will switch it to **OFF**. Please note that even

in the **OFF** mode the **Trophy Cam** still consumes power at a very low level. Therefore, it's a good idea to take the batteries out of the battery compartment if the camera will not be used for a long time.

ON Mode

Anytime after the batteries and SD card have been inserted, you can switch on the camera. When the power switch is moved to the top position, the camera will enter into the **ON** (Live) mode. The motion indicator LED (*pg. 7, "Front View"*) will blink red for about 10 seconds. This interval allows time for you to close the **Trophy Cam's** front cover, lock it, and leave the monitored area. Once in the **ON** mode, no manual controls are needed or possible (the control keys have no effect). The **Trophy Cam** will take photos or videos automatically (according to its current parameter settings) when it is triggered by the PIR sensor's detection of activity in the area it covers.

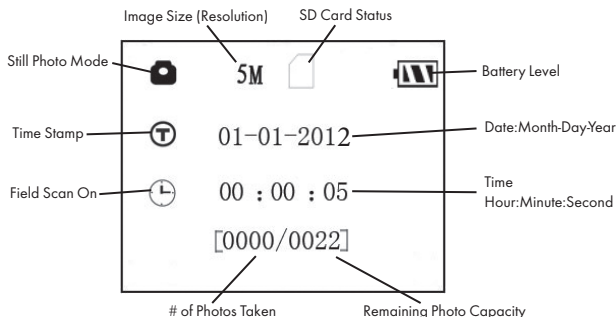
You can either move the power switch directly from **OFF** to **ON** mode, or stop at the **SETUP** position first to change one or more settings, then move the switch to **ON** after you have finished doing so.

SETUP Mode

In the **SETUP** mode you can check and change the settings of the **Trophy Cam** with the help of its built-in LCD (*or a monitor connected to the TV out jack*). These settings, found in the SETUP Menu, let you change the photo or video resolution, interval between photos, switch the time imprint on, etc. Moving the power switch to the **SETUP** position will turn on the LCD display, and you will see an information screen that shows how many images have been taken, the battery level, camera or video mode, etc (see *Fig. 3*).

NOTE: always move the power switch from **OFF** to **SETUP** mode. It is possible that the camera could lockup if it is switched from **ON** to **SETUP** mode. If this occurs, simply move the switch to **OFF** and then push it up to **SETUP** again.

Fig. 3: SETUP Information Screen



SETUP Mode Shortcut Keys/Functions

As mentioned earlier in "Parts & Controls", four of the keys below the LCD have secondary, "shortcut" functions when the camera is switched to **SETUP** mode (but the **MENU** key has not been pressed):

- Press the **UP** key to quickly set the camera to shoot video clips.
- Press the **DOWN** key to quickly set the camera to take still photos.
- Press the **RIGHT** key to manually trigger the shutter. This is useful for testing the camera-make sure you are in **SETUP** mode, press the **RIGHT** key, and a few seconds later a photo or video (depending on how the camera was set) will be saved to the SD card (or internal memory if no card is inserted). The "number of images taken" counter on the bottom left of the LCD will increase by one. If the display indicates "SD PROTECTED" when you press the **SHOT** key, switch the camera **OFF**, remove the SD card and slide its protect switch off.
- Press the **OK** key to replay (review or playback) photos/videos on a connected TV monitor (*optional, user provided*). See "Playing Back Photos/Videos" for more details.

USING THE SETUP MENU TO CHANGE SETTINGS

The main purpose of the **SETUP** mode is to allow you to change the settings of the camera's parameters (12-13 different ones are available) so your **Trophy Cam** operates exactly the way you want it to. You will do this by entering the **SETUP** Menu and pressing the keys below the LCD display, which will show you each parameter and its setting.

Changing Parameter Settings in SETUP Mode

A wide range of options or "parameters" are provided to allow you to set the **Trophy Cam** to your operational preferences. To change the setting of any parameter you must first switch to the **SETUP** mode. Once in **SETUP** mode, pressing the **MENU** button will allow you to select any parameter and change its setting. The name of the parameter and its current setting will be shown on the LCD. Pressing the **RIGHT** or **LEFT** key scrolls to the next or previous parameter (**RIGHT** key to move on to the next parameter and **LEFT** key to go back to the previous parameter), and pressing the **UP** or **DOWN** key lets you select a different setting for the currently displayed parameter. Once you have selected your preferred new setting for a parameter, press the OK button to save the new setting (actually change it). When have are finished changing the settings of one or more parameters, press **MENU** again to exit the **SETUP** menu. **MENU** can also be pressed anytime you want to cancel changing a parameter's setting after a new setting has been selected (but **OK** has not been pressed yet). After setting the parameters to your preferences, be sure to move the switch to **ON** to begin actually taking photos or videos. No images will be captured if the switch is left in the **SETUP** position (*unless you press the **RIGHT/Shot** key after exiting the menu*)-in fact, the camera will power off automatically after a few seconds with no key pressed.

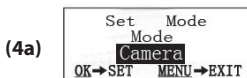
How Parameter Settings Are Displayed

Some more detail regarding how the settings for a parameter are indicated on the display:

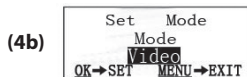
- Only one setting is displayed at a time, starting with the current setting for the parameter when it is first selected (*Fig. 4a*). To change the setting, use the **UP/DOWN** keys to display the new setting you want (*Fig. 4b*), then press **OK** to “Execute” (make the actual change to this setting). If you want to confirm this setting is now the current one, just press the **RIGHT** key to scroll to the next parameter, then press **LEFT** to go back again to the previous one. You should see the parameter setting you just made.

Fig. 4: Selecting Parameter Settings

Press MENU



Press DOWN



Press OK

EXAMPLES-Changing the Settings of Some Common Parameters

Following this page, you will find tables listing all of the parameters found in the **SETUP** Menu, along with their possible settings (or range of settings), and a detailed description of what the parameter controls and what the settings do. If you read the previous section detailing how to select parameters and change their settings, you should be able to dive right in, find the parameter(s) you want, and setup the camera to your preferences. But maybe you'd rather walk through an example or two first:

To change any parameter's setting, always start with the power switch in the **SETUP** position. After the LCD comes on, press the **MENU** key.

The first parameter you will when you first enter the **SETUP** Menu is "Mode". To change it from its default setting of "Camera" (still photos) to "Video" (shoot video clips), press the **DOWN** key to select the "Video" setting. Press the **OK** key to "Execute" (Set) the new setting you've selected for this parameter.

Now press the **RIGHT** key to move to another parameter in the Menu. Pressing it four times will take you to "Video Length". Try using the **UP** and **DOWN** keys to scroll through the range of settings, then press **OK** to lock in your setting for the length of each video clip the camera shoots.

Pressing the **RIGHT** key several more times will get you to the "Default Set" parameter. Highlight or select "Execute" (using **UP** or **DOWN**) and press **OK** to restore all parameters (including the Mode and Video Length parameters you changed a minute ago) back to their original factory default settings. The default settings for each parameter are indicated in bold type in the **SETUP** Menu tables on the next several pages.

Be sure to set the current date and time, using the "Set Clock" parameter, if you choose to change the "Time Stamp" parameter setting to "On" since that will tell the camera to imprint the date and time on each of the images it captures.

FIELD SCAN FEATURE

Field Scan is a revolutionary new feature for the Bushnell **Trophy Cam**, which allows you to monitor your food plots or field edges with time lapse images or video. When set to "On", the **Trophy Cam** will take a photo (or record a video clip) automatically at your choice of intervals during a block of time you set up for each day, **without requiring a trigger from an active animal**. This has the advantage of giving you the ability to monitor the edge of a field that might be 50 or 150 yards away from the camera out of the PIR sensor's range. The result is an effective range much greater than it would normally be, with the camera dependant on triggers generated by nearby animals. This is a great tool for hunters to scout an entire field with only one camera.

If an animal does enter the area covered by the IR sensor and generate a trigger event during a time in between the Field Scan intervals you set, the camera will capture an image or video just as it normally would, based on your other menu settings. Here's how to setup and use Field Scan (be sure you've set the current time in "Clock Set" first, so your Field Scan recording will stop and start at the correct times of day):

1. Move the main switch to **SETUP**, then press **MENU**.
2. Keep pressing the **RIGHT** key, stepping through the Setup Menu until you reach Field Scan.
3. With "On" selected (press **UP/DOWN** to toggle between On/Off), press **OK**. This takes you to the screen to set Start and Stop time, which determines the clock times when the Field Scan recording will begin and end for each day. You can set these times to the exact hour and minute you want, for a recording "block" that lasts anywhere from just a minute to a full 24 hours.
4. Set the [Start] and [Stop] times, beginning with the Start hour, using the **UP/DOWN** keys to change the setting. The hour setting is based on a 24-hour clock, with "00" hours = midnight, "12" hours = noon, "23" hrs = 11PM, etc. To move to the next setting, press the **RIGHT** key, change the minute for the Start time with **UP/DOWN**, then on to the hour and minute settings for the Stop time.

5. After you finish setting the last time setting (Stop minutes), another press of the **RIGHT** key will take you to the setting for Interval. This lets you control how often a photo or video clip is recorded during the block of time you defined with the Start and Stop settings. Note that for videos, this is independent of the length of each video recording—it's how often videos are recorded, not how long each one lasts. Your options are 60 minutes, 30 minutes, 15 minutes, 5 minutes (this is the default), or 1 minute—use the **UP/DOWN** keys to select your preference, then press **OK** to save it.

Here's an example of how the camera would operate, based on the following Field Scan settings:

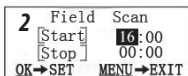
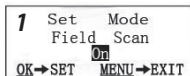
Field Scan: On

[Start]: 16:00

[Stop]: 18:30

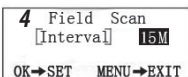
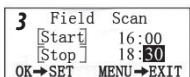
Interval: 15M

These settings would cause the camera to take a photo (or video, depending on which you have it set for) beginning at 4 PM, then another one at 4:15, 4:30, etc.—one every 15 minutes, until the Field Scan recording stops at 6:30 PM. The next day, the camera would again record an image or video once every 15 minutes between 4 and 6:30 PM. Remember, this is independent of normal triggers due to animal activity—even if no animals enter the IR sensor coverage zone, an image or video will still be captured every 15 minutes during the 2.5 hour block of time. If an animal triggers the camera “in between” the 15 minute intervals, it will be recorded, same as it would if you had setup the camera with Field Scan turned Off. **Note: Field Scan settings of frequent intervals and/or long periods between start and stop time can reduce battery life.**



Step 1: set Field Scan Mode to “On”

Step 2: set Start Time (Hr. & Min.)



Step 3: set Stop Time (Hr. & Min.)

Step 4: set Interval (60, 30, 15, 5 or 1M)

The SETUP Menu-Parameters and Settings List w/Descriptions

Parameter	Settings (Bold=default)	Description
Mode	Camera or Video	Selects whether still photos or video clips are captured when the camera is triggered.
Image Size (only affects still photos)	3M Pixel, 5M Pixel , 8M Pixel	Sets resolution for still photos to 3, 5 or 8 megapixels. Higher resolution produces better quality photos, but creates larger files that take up more of the SD card capacity (fills up faster).
Capture Number (only affects still photos)	1 Photo , 2 Photo, 3 Photo	Selects how many photos are taken in sequence per trigger in Camera mode. <i>Please also refer to the Interval parameter.</i>
Video Size (only affects video clips)	640x480 , 320x240	Selects video resolution (in pixels per frame). Higher resolution produces better quality videos, but creates larger files that take up more of the SD card capacity (fills up faster). 640x480 is VGA video in standard 4:3 format.
Video Length (only affects video clips)	10S (second) default, with 60S to 1S possible range	Sets length per captured video clip. Settings begin with 10 second default when parameter is first selected. After stepping down to 1S, video length settings start over at 60S.

The SETUP Menu-Parameters and Settings List w/Descriptions

Parameter	Settings (Bold=default)	Description
Interval	<p>10S (second) default, with a 60M (minute) to 1S (second) range of settings available.</p> <p><i>(60M-1M are set in one minute increments, 59S-1S are set in one second increments)</i></p>	<p>Selects the length of time that the camera will “wait” until it responds to any additional triggers from the PIR after an animal is first detected and remains within the sensor’s range. During this user set “ignore triggers” interval, the camera will not capture photos/videos. This prevents the card from filling up with too many redundant images. Settings begin with 10 second default when parameter is first selected. <i>Note: after setting down past “1S”, settings start over at “60M”.</i></p>
Sensor Level	<p>Normal, High, Low</p>	<p>Selects the sensitivity of the PIR sensor. The “High” setting will make the camera more sensitive to infrared (heat) and more easily triggered by motion, and the “Low” setting makes it less sensitive to heat and motion. The High setting can be useful when the ambient temperature is warm (making it more difficult for the sensor to detect animals), and the Low setting may help in cold weather if the camera is being triggered too often by anything warmer than the surroundings.</p>

The SETUP Menu-Parameters and Settings List w/Descriptions

Parameter	Settings (Bold=default)	Description
Format	Execute	Deletes (erases) all files stored on a card to prepare it for reuse. Always format a card that has been previously used in other devices. Caution! Make sure you have downloaded and backed up any files you want to preserve first! Press OK to execute, press MENU (or select NO then press OK) to exit without formatting.
TV Out	NTSC, PAL	Selects video standard /format for the "TV Out" output jack. The video standard is NTSC for the United States, Canada, Mexico, Asia and South America. PAL is used primarily in Europe.
Time Stamp <i>(only affects still photos)</i>	Off, On	Select "On" if you want the date & time (that the photo was captured) imprinted on every photo, select "Off" for no imprint.
Set Clock	Set	Press OK and use the UP/DOWN keys (to change the setting) and LEFT/RIGHT keys (to move to the next field) to set the hour (24-hr format only, "00"=midnight, "12"=noon) and minute, and then (on the lower row), the year, month and date.

The SETUP Menu-Parameters and Settings List w/Descriptions

Parameter	Settings (Bold=default)	Description
Field Scan	On, Off	Turns Field Scan (Time Lapse) recording mode on/off. Pressing OK with On selected will go to the Set Field Scan screen, which allows you to set the Start and Stop times in hours (0-24) and minutes (00-59). This is setting the time each day for recording to begin and end (24 -hr clock, so 13:00 hours=1PM). Use the RIGHT key to step through the fields, and use UP/DOWN to change the settings. After you set the "Stop" minutes, the next press of the RIGHT arrow key will jump to the screen for setting the Interval (how often the Trophy Cam will wake up and record). You can select 60, 30, 15, 5 or 1 minutes (default is 5M).
Default Set	Cancel, Execute	Select "Execute" and press OK to restore all parameters to the original factory default settings. If the camera is behaving oddly and you think you may have changed the setting for something accidentally (but aren't sure which one), this will reset all parameters to their most commonly used or "generic" settings.

MOUNTING AND POSITIONING the TROPHY CAM

Mounting

After you've set up the camera's parameters to your personal preferences at home or in your truck, you're ready to take it outside and slide the power switch to "ON". When setting up the **Trophy Cam** for scouting game or other outdoor applications, you must be sure to mount it in place correctly and securely. We recommend mounting the **Trophy Cam** on a sturdy tree with a diameter of about 6 in. (15cm). To get the optimal picture quality, the tree should be about 16-17 ft. (5 meters) away from the place to be monitored, with the camera placed at a height of 5-6.5 ft. (1.5~2 m). Also, keep in mind that you will get the best results at night when the subject is within the ideal flash range, no farther than 45' (14m) and no closer than 10' (3m) from the camera.

There are two ways to mount the **Trophy Cam**: using the provided adjustable web belt, or the tripod socket.

Using the adjustable web belt: *Fig. 5* illustrates using the web belt on the **Trophy Cam**. Push one end of the belt through the two brackets on the back of the **Trophy Cam**. Thread one plastic buckle part onto each end of the belt. Fasten the belt securely around the tree trunk by clicking the buckle ends together after tightening the belt so there is no slack left.

Fig. 5: Attaching the Belt



Using the tripod socket: The camera is equipped with a socket at the bottom end to enable mounting on a tripod or other mounting accessories with a standard 1/4-20 thread.

Two optional mounting accessories, a “Bear Safe” metal camera box (model # 119653C) and Deluxe Tree Bracket (model# 119652C) are also available—please see your Bushnell dealer or website for more details.

Sensing Angle and Distance Test

To test whether the **Trophy Cam** can effectively monitor the area you choose, this test is recommended to check the sensing angle and monitoring distance of the **Trophy Cam**. To perform the test:

- Switch the **Trophy Cam** to the **SETUP** mode.
- Make movements in front of the camera at several positions within the area where you expect the game or subjects to be. Try different distances and angles from the camera.
- If the motion indicator LED light blinks, it indicates that position can be sensed. If it does not blink, that position is outside of the sensing area.

The results of your testing will help you find the best placement when mounting and aiming the **Trophy Cam**. The height away from the ground for placing the device should vary with the animal size appropriately. In general, 3 to 6 feet is preferred.

You can avoid potential false triggers due to temperature and motion disturbances in front of the camera by not aiming it at a heat source or nearby tree branches or brush (especially on windy days).

Switching ON the Camera

Once you switch to the **ON** mode, the motion indicator LED (red) will blink for about 10 seconds. This gives you time to close and lock the front cover of the **Trophy Cam** and then walk away. During this time, the motion indicator LED will blink red continuously. After it stops blinking, the PIR is active, and any motion that is detected by it will trigger the capture of photos or videos as programmed in the **SETUP** Menu. Be sure you have read the descriptions of the Capture Number, Video Length, Interval

and Sensor Level parameters. Please note, the PIR is strongly sensitive to ambient temperature. The greater the temperature difference between the environment and your subject, the farther the possible sensing distance. The average sensing distance is about 45 ft.

Before leaving the camera unattended, please check for the following:

- Are the batteries or DC power supply inserted/connected with correct polarity and is the power level is sufficient?
- Does the SD card have sufficient available space and is its write-protection (lock) switch off?
- Is the Power switch in the **ON** position? (do not leave it in **SETUP**).

PLAYING BACK/DELETING the PHOTOS/VIDEOS

After you have setup, mounted and activated your **Trophy Cam**, you will of course be eager to return later and review the images it has captured for you. There are several different ways this can be done.

Reviewing Images on an External Video Monitor

A TV monitor can also be used to play back pictures (or videos) from the device. Connect a TV monitor or a viewing device (such as a digital picture frame) that has a standard composite video input (RCA jack) to the **Trophy Cam** 's "TV Out" mini jack using the supplied cable (*see next page*). Then:

- Put the power switch in **SETUP** mode (switch to **OFF** first).
- Press the **OK** key. The most recently captured image will be shown on the video monitor. For video clips, press the **SHOT (RIGHT)** key to start playing, press again to stop.
- Press the **UP** key for the previous photo or video and the **DOWN** key for the next one. When viewing images, the total number of all images in the SD card and the index of the displaying image are shown in the center of LCD and at the bottom of the video monitor respectively.
- Press the **OK** key to return to live preview state (**SETUP** mode) when playback is finished.

Connecting an external video monitor to review images



Cable from "TV Out"

Deleting Photos/ Video Files

In SETUP mode, it is possible to delete the photo or video files-just the most recent one, or all of them. This can be useful if an SD card is full but doesn't have any images you want to keep, and you don't want to remove the card and insert a new one- or if you trigger a photo during testing that you know you won't need. Here's how to delete files:

- Switch to SETUP mode if you aren't already in it. Press **OK**.
- Press **MENU**. You will see "Delete Current"-this option will let you delete only the last, most recently captured photo or video. Pressing the **UP** or **DOWN** key will switch to "Delete ALL"-this option allows you to delete (erase) every one of the photo and video files on the card without having to do this one at a time. Don't worry, several more steps are required to actually make any deletion final.
- After selecting the "Delete Current" or "Delete ALL" option, press **OK** if you want to proceed with the Delete operation, or press **MENU** to exit without deleting any files.
- If you pressed **OK** in the previous step, you will next see a choice of YES or NO (the default is NO)-this is a safety step to help prevent erasing files accidentally. To finalize deleting the file or files, use the **LEFT/RIGHT** keys to highlight Yes, then press **OK** to confirm and finalize the delete operation (or **MENU** to exit without deleting).

NOTE: after deleting one or all of your photo or video files, the deleted files can't be restored! It is also possible to delete all files from the card by using the Format parameter.

Reviewing Images Directly From the SD Card

This is the most popular method of viewing images. Since unmounting the camera and taking it to your computer isn't very convenient, you may find it easier to just take the card out. By removing the SD card (swapping it for a new empty card if you like) and taking it to your home or campsite to view the images by using an SD card "reader" (*user supplied*) connected to your computer (some computers and TVs have a built in SD card slot), you can leave the camera in place ready to capture more images. Once connected, the card reader works the same way as described next—please read that section if you have any problem finding your files.

Reviewing Images by Connecting the Camera to a Computer

You can always unmount the entire camera from the tree and connect its USB port to a computer—it will be recognized as a "removable disk", without the need to install any drivers or software. When using a PC (or Mac) to view photos (or video clips), first connect the device to the computer with the supplied USB cable. Then use commercial software with an image browser feature, or an image browser included with the PC's operating system to view images saved on the SD card in the folder \DCIM\100EK113. Each new image or video will be numbered incrementally in order of the time it was captured. For example, you will see file names such as "PICT0001.JPG" or "PICT0001.AVI". Through the file format suffix you can distinguish whether the file is a still photo (with suffix .jpg) or a video (with suffix .avi).

The **Trophy Cam** supports 3 kinds of file system formats, FAT12, FAT16, and FAT32. The default value is FAT16 to save photos and videos. Here are some related notes:

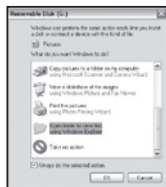
- You don't need to be concerned about the file system format of the **Trophy Cam** unless your equipment has problems reading the SD card. If this happens, please format the SD card with the **Trophy Cam** or in your computer first and then insert the card into your **Trophy Cam** and try again.
- The default file system format of the **Trophy Cam** is FAT16, which most computers can read. If you format an SD card for the **Trophy Cam** in your computer, you should choose the file system format FAT16. Normally FAT16 is recommended unless you have another image viewer that uses FAT12 or FAT32 format.

DOWNLOADING the PHOTOS/VIDEOS

To download your photos/videos to a PC or Mac, first make sure the **Trophy Cam** power switch is in the **OFF** position. Connect the supplied cable to the camera's USB port, then directly to a main USB port on your computer-do not use front panel/keyboard USB ports or unpowered "hubs".

The **Trophy Cam** will be recognized as a standard "USB Mass Storage" device (this may take several seconds the first time you connect it). If you would rather leave your camera in the woods and just pull its SD card out, an SD card reader works the same way as described in this section once the card is inserted and the reader is connected to your computer.

With Windows XP or later, you can then simply use the options in the pop-up window to copy, view, or print your photos (*right*).



On all Windows OS, the **Trophy Cam** will also be listed as a "Removable Disk" if you open the "My Computer" window (on Macs, an icon will appear on your desktop). The **Trophy Cam**'s photo files are named "PICT0001.JPG" etc, and are located in the "DCIM\100EK113" folder on this "Removable Disk". Video file names will end with ".AVI". You may copy the photos/videos to your hard drive as you would any file-just copy/paste or drag the file names or icons to your drive or desktop.

After the photos are copied to your hard drive, you can disconnect the **Trophy Cam**. (On Mac computers, drag the "disk" that appeared on your desktop when the camera was connected into your Trash to "eject" it before disconnecting.) The .jpg standard files from the **Trophy Cam** may be viewed and edited with any photo software you choose to use. The .avivideo files may be viewed with Windows Media Player (version 7 or later) as well as other video playback programs that may have been supplied with your computer, or are available online.

Troubleshooting / FAQ

Battery life is shorter than expected

1. Battery life will vary with operating temperature and the number of images taken over time. Typically, the **Trophy Cam** will be able to capture several thousand images before the batteries die.
2. Check to make sure you have used new alkaline or lithium batteries. **Bushnell recommends using 8 Energizer® Lithium AA batteries in all Trophy Cams to obtain maximum battery life.**
3. Make sure that the power switch was turned to the “On” position and that the camera was not left in “Setup” mode while in the field.
4. Make sure that you are using a good quality name brand SD card in your camera. **Bushnell recommends SanDisk® brand SD Cards up to 32GB.** Our experience indicates that poor quality SD cards can sometimes reduce your **Trophy Cam** battery life.

Camera stops taking images or won't take images

1. Please make sure that the SD card is not full. If the card is full, the camera will stop taking images.
2. Check the batteries to make sure that they are new alkaline or lithium AA batteries. ***See note above about short battery life.***
3. Make sure that the camera power switch is in the “On” position and not in the “Off” or “Setup” modes.
4. Make sure that you are using a good quality SD card in your camera. **Bushnell recommends SanDisk® SD Cards up to 32GB.**
5. If the SD card has its write protect switch in the lock position, the camera will not take images.
6. If you have used an SD card in another device before inserting it in your **Trophy Cam**, you might want to try formatting the card using the “Format” parameter in Setup mode (make sure you have backed up any important files first, as formatting will erase all previous files). In some cases, other devices may change the formatting of the SD card so that it will not work properly with the **Trophy Cam**.

Troubleshooting / FAQ

Camera won't power up

1. Make sure that you have installed at least 4 batteries (the required minimum #) in the battery compartment, starting at the top, filling battery spaces 1-4 with no "gaps".
Bushnell recommends using 8 Energizer® Lithium AA batteries in all Trophy Cams.
2. Make sure that the batteries are installed correctly, observing proper polarity. Always place the negative (flat) end of each battery in contact with the spring side of its slot inside the camera.
3. After moving the switch from "Off" to "Setup" or "On", make sure that the switch is correctly in position to ensure the proper mode (avoid positions "between" two modes).
4. Do not move the switch directly from "On" to "Setup"-always move the switch all the way down to "Off" first, then back up to "Setup".

Still Photo and/or Video Quality Problems

1. *Night photos or videos appear too dark*
 - a. Check the battery indicator icon to see if battery power is full. The flash will stop operating near the end of the battery life.
 - b. You will get the best results when the subject is within the ideal flash range, no farther than 45' (14m) from the camera. Subjects may appear too dark at greater distances.
 - c. Please note that when the Capture Number parameter is set higher than "1 Photo", or with very short Interval settings, some images may appear darker than others due to the quick response and rapid retriggering of the camera, allowing less time for the flash to fully recharge before firing again.
2. *Daytime photos or videos appear too dark*
 - a. Make sure that the camera is not aimed at the sun or other light sources during the day, as this may cause the auto exposure to produce darker results.

Troubleshooting / FAQ

3. *Night photos or videos appear too bright*

- a. You will get the best results when the subject is within the ideal flash range, no closer than 10' (3m) from the camera. Subjects may appear too light at closer distances.

4. *Daytime photos or videos appear too bright*

- a. Make sure that the camera is not aimed at the sun or other light sources during the day.

5. *Photos with streaked subject*

- a. In some cases with low lighting conditions and fast moving subjects, the 8MP and 5MP resolution settings may not perform as well as the 3MP setting.
- b. If you have multiple images where fast moving subjects produce streaks on the photo, try the 3MP setting instead.

6. *Red, green or blue color cast*

- a. Under certain lighting conditions, the sensor can become confused resulting in poor color images.
- b. If this is seen on a consistent basis, then the sensor may need servicing. Please contact Bushnell customer service.

7. *Short video clips—not recording to the length set*

- a. Check to make sure that the SD card is not full.
- b. Make sure that the camera has good batteries in it. Near the end of the battery life, the camera may choose to record shorter video clips to conserve power.

Date/Time Stamp not appearing on images

1. Make sure that the "Time Stamp" parameter is set to "On".

Photos Do Not Capture Subject of Interest

1. Check the "Sensor Level" (PIR sensitivity) parameter setting. For warm environmental conditions, set the Sensor Level to "High" and for cold weather use, set the sensor for "Low".
2. Try to set your camera up in an area where there is not a heat source in the camera's line of sight.
3. In some cases, setting the camera near water will make the camera take images with no subject in them. Try aiming the camera over ground.

Troubleshooting / FAQ

4. Try to avoid setting the camera up on small trees that are prone to being moved by strong winds.
5. Remove any limbs which are right in front of the camera lens.

PIR Sensor LED Flashes/Doesn't Flash

1. When the camera is in the "Setup" mode, a special LED on the front of the camera will flash when it senses motion. This is for setup purposes only and will help the user aim the camera.
2. During use, the LED will not flash when the camera takes an image. This is to help keep the camera hidden from game.

LCD Screen Issues

1. *LCD screen powers on but no text is present.*
 - a. After moving the switch from "Off" to "Setup" or "On", make sure that the switch is correctly in position to ensure the proper mode (avoid positions "between" two modes).
 - b. Do not move the switch directly from "On" to "Setup"-always move the switch all the way down to "Off" first, then back up to "Setup".
2. *LCD screen shows a faint black line after turning from "Setup" to "On".*
 - a. The LCD will turn off when you slide the switch to the "On" position. In some cases, this black line will appear and then fade in about 1 second. This is normal and the camera will function properly.
3. *Screen comes on but then powers off*
 - a. Make sure that you have installed the SD card correctly.

Camera won't retain settings

1. Make sure that you have been saving the changes to any parameter settings that you made while in Setup mode, by pressing "OK" after changing the setting. If you don't save your new setting after changing it, the camera will continue to use the original default setting for that parameter.

Troubleshooting / FAQ

Camera takes continuous images of no subject

A camera has what is known as a “false trigger” if the PIR sensor thinks that there is motion and heat in front of the camera lens when there is no subject in the image. These “False Triggers” are the result of placing the camera in an environment where there is motion associated with tree branches creating motion in front of the camera or an area where there is high heat in the foreground and any motion from wind could set off the camera. Setting a camera up over water is also a potential cause for this issue.

1. To remedy this situation try moving the camera to an area that does not have any of these issues or try changing the sensor level on the menu settings.
2. If the camera continues to take images when there is no subject in them, try placing the camera in an inside environment and aiming at a location where there is no motion. I
3. If the camera continues to show issues, then there is probably an electronic component issue. If this is the case, please contact our customer service to send the camera back for repair.

Moisture or Ants Inside Camera

1. To ensure humidity or rain is kept out of the camera, secure the DC In plug firmly in place.
2. Ants can be attracted by low level electronic vibrations, and enter through any gaps between the exterior and interior of the camera. Make sure the DC In plug is securely attached.

Do not mix old and new batteries.

Do not mix battery types-use ALL lithium or ALL alkaline.

Rechargeable batteries are not recommended.

Technical Specifications

Image Sensor	5 Megapixel Color CMOS
Maximum Pixel Size	3264x2448 (8MP)
Lens	F=3.1; FOV=50°; Auto IR-Cut-Remove (at night)
IR-Flash Range	36'-45' (12m-15m)
Display Screen	B&W Display: 24x32mm(1.5")
Memory Card	SD or SDHC Card, Maximum capacity 32GB
Internal RAM	32MB
Picture Size	8MP= 3264x2448; 5MP = 2560x1920; 3MP = 2048x1536
Video Size	640x480/30fps, 320x240/30fps
PIR sensitivity	PIR with 3 sensitivity levels: High/Normal/Low
Operation	Day/Night
Response Time	1s
Triggering Interval	1sec. - 60min. programmable
Shooting Numbers	1~3 programmable
Video Length	5-60sec. programmable
Power Supply	8xAA recommended, 4xAA as emergency power
Stand-by Current	< 0.3mA(<7mAh/day)
Power Consumption	200mA (+530mA when IR-LED lighted)
User Interface	LCD display
Interface	TV out (NTSC/PAL); USB; SD card holder; 6V DC external
Security	Strap; ¼-20 attachment
Operating Temperature	-20 - 60°C (Storage temperature: -30 - 70°C)
Operating Humidity	5% - 90%
Security authentication	FCC/CE/RoHs/WEEE

TWO-YEAR LIMITED WARRANTY

Your Bushnell® product is warranted to be free of defects in materials and workmanship for two years after the date of purchase. In the event of a defect under this warranty, we will, at our option, repair or replace the product, provided that you return the product postage prepaid. This warranty does not cover damages caused by misuse, improper handling, installation, or maintenance provided by someone other than a Bushnell Authorized Service Department.

Any return made under this warranty must be accompanied by the items listed below:

1. A check/money order in the amount of \$10.00 to cover the cost of postage and handling
2. Name and address for product return
3. An explanation of the defect
4. Proof of Date Purchased
5. Product should be well packed in a sturdy outside shipping carton, to prevent damage in transit, with return postage prepaid to the address listed below:

IN U.S.A. Send To:

Bushnell Outdoor Products
Attn.: Repairs
9200 Cody
Overland Park, Kansas 66214

IN CANADA Send To:

Bushnell Outdoor Products
Attn.: Repairs
25A East Pearce Street, Unit 1
Richmond Hill, Ontario L4B 2M9

For products purchased outside the United States or Canada please contact your local dealer for applicable warranty information. In Europe you may also contact Bushnell at:

Bushnell Germany GmbH
European Service Centre
Mathias-Brüggen-Str. 80
D-50827 Köln
GERMANY
Tel: +49 221 995568-0
Fax: +49 221 995568-20

This warranty gives you specific legal rights.
You may have other rights which vary from country to country.

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Specifications and designs are subject to change without
any notice or obligation on the part of the manufacturer.

FCC Compliance Statement:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

The device does not contain any user-serviceable parts. Repairs should only be made by an Authorized Bushnell repair center. Unauthorized repairs or modifications could result in permanent damage to the equipment, and will void your warranty and your authority to operate this device under Part 15 regulations.

The shielded interface cable which is provided must be used with the equipment in order to comply with the limits for a digital device pursuant to Subpart B of Part 15 of FCC Rules.



Bushnell®

For further questions or additional information please contact:

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